

61889 U.S. PTO  
05/17/97  
Derrick P. Fish  
1855-1930  
W.K. Richardson  
1859-1951

# FISH & RICHARDSON P.C.

70619 U.S. PTO  
08/858116  
05/17/97  
2200 Sand Hill  
Suite 100  
Menlo Park, CA 94025  
Telephone  
415 322-5070  
Facsimile  
415 854-0875

May 16, 1997

Attorney Docket No.: 1698RTP(183001)

## BOX PATENT APPLICATION

Assistant Commissioner of Patents  
Washington, DC 20231

Presented for filing is a new continuation-in-part patent application of:

Applicant: PAUL DEATON, BENJAMIN BIERMAN, MEREDITH J. WILLIAMS, BRIAN HAAS, DAVID S. BALLANCE AND JAMES V. TIETZ  
Title : METHOD AND APPARATUS FOR PURGING THE BACK SIDE OF A SUBSTRATE DURING CHEMICAL VAPOR PROCESSING

Enclosed are the following papers, including all those required for a filing date under 37 CFR §1.53(b):

Pages of Specification	28
Pages of Claims	10
Pages of Abstract	1
Signed Declaration	[To Be Filed At A Later Date]
Sheets of Drawing	11

Under 35 USC §120, this application claims the benefit of prior U.S. application 08/687,166, filed July 24, 1996.

"EXPRESS MAIL" Mailing Label Number EM452472505US

Date of Deposit 5/16/97  
I hereby certify under 37 CFR 1.10 that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office To Addressee" with sufficient postage on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Chris Skypser  
Chris Skypser

FISH & RICHARDSON P.C.

May 16, 1997

Page 2

Basic filing fee	770.00
Total claims in excess of 20 times \$22.00	660.00
Independent claims in excess of 3 times \$80.00	400.00
Multiple dependent claims	0.00
Total filing fee:	\$ 1830.00

A check for the filing fee is enclosed. Please charge any other required fees, or apply any credits, to Deposit Account No. 06-1050, referencing the Attorney Docket number shown above.

Please direct all future correspondence as follows:

Patent Counsel  
Legal Affairs Department  
Applied Materials, Inc.  
P.O. Box 450A  
Santa Clara, CA 95052

If this application is found to be INCOMPLETE, or if it appears that a telephone conference would helpfully advance prosecution, please telephone the undersigned at 415/322-5070.

Kindly acknowledge receipt of this application by returning the enclosed postcards.

Respectfully submitted,



Mark D. Wieczorek  
Reg. No. 37,966

Enclosures  
68567.P11

08959116-051997

61889 U.S. PTO  
05/19/97

770.00-101-477



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

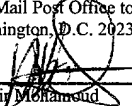
DOCKET NUMBER	ANTICIPATED CLASSIFICATION OF THIS APPLICATION:		PRIOR APPLICATION	
	CLASS	SUBCLASS	EXAMINER	ART UNIT
8373.52USF2			Steven Griffin	1303

70619 U.S. PTO  
08/858116

CERTIFICATE UNDER 37 CFR 1.10:

"Express Mail" mailing label number: EM609610076US  
Date of Deposit: May 19, 1997

I hereby certify that this paper or fee is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Assistant Commissioner for Patents, Washington, D.C. 20231.

By:   
Name: Nassir Mohamed

REQUEST FOR FILE WRAPPER CONTINUING APPLICATION UNDER 37 C.F.R. § 1.62

Assistant Commissioner for Patents  
Box FWC  
Washington, DC 20231

Dear Sir:

This is a request for filing a Continuation application under 37 CFR § 1.62 of prior pending patent application Serial No. 08/548,418, filed on October 26, 1995 entitled METHOD OF BENDING SHEET GLASS by the following inventor(s):

Full Name Of Inventor	Family Name MIZUSUGI	First Given Name TETSUYA	Second Given Name
Residence & Citizenship	City TOKYO	State or Foreign Country JAPAN	Country of Citizenship JAPAN
Post Office Address	Post Office Address 331-9, OYAMA-MACHI, MACHIDA-SHI	City TOKYO	State & Zip Code/Country JAPAN
Full Name Of Inventor	Family Name YUKI	First Given Name KAZUNORI	Second Given Name
Residence & Citizenship	City TOKYO	State or Foreign Country JAPAN	Country of Citizenship JAPAN
Post Office Address	Post Office Address 6-11-1-205, KOYO-DAI, INAGI-SHI	City TOKYO	State & Zip Code/Country JAPAN
Full Name Of Inventor	Family Name TANAKA	First Given Name MITSUO	Second Given Name
Residence & Citizenship	City SAITAMA	State or Foreign Country JAPAN	Country of Citizenship JAPAN
Post Office Address	Post Office Address 221-14, KANAKUBO, KAMISATO-MACHI, KODAMA-GUN	City SAITAMA	State & Zip Code/Country JAPAN

The above-identified prior application in which no payment of the issue fee, abandonment of, or termination of proceedings has occurred, is hereby expressly abandoned as of the filing date of this new application. Please use all the contents of the prior application file wrapper, including the drawings, as the basic papers for the new application.

1. ☒ Enter the amendment previously filed on February 19, 1997, but unentered, in the prior application.

E.O. 7. to 130

2. ☒ A preliminary amendment is enclosed.

The filing fee is calculated below on the basis of the claims existing in the prior application as amended at 1 and 2 above:

**CLAIMS AS FILED**

NUMBER FILED	NUMBER EXTRA		RATE	FEE
<b>TOTAL CLAIMS:</b> 5 -20	0	x	\$22	\$0.00
<b>INDEPENDENT CLAIMS</b> 1 -3	0	x	\$80	\$0.00
			<b>BASIC FILING FEE:</b>	\$770.00
			<b>TOTAL FILING FEE:</b>	\$770.00

- ☐ A Verified Statement that this filing is by a small entity (37 CFR 1.9, 1.27, 1.28) is already filed in the prior application.

- ☐ A Verified Statement that this filing is by a small entity (37 CFR 1.9, 1.27, 1.28) is attached.

3. ☒ Payment of fees:  
☒ Attached is a check in the amount of \$ 770.00.  
☐ Please charge Deposit Account No. 13-2725.
4. ☒ The Commissioner is hereby authorized to charge any additional fees as set forth in 37 CFR §§ 1.16 to 1.18 which may be required by this paper or credit any overpayment to Account No. 13-2725.
5. ☒ Amend the specification by inserting before the first line the sentence:  

"This is a Continuation of application Serial No. 08/548,418, filed October 26, 1995 which is a Continuation of application Serial No. 08/204,536, filed March 2, 1994.
6. ☐ A new oath or declaration is included since this application is a continuation-in-part which discloses and claims additional matter.
7. ☒ Priority of application Serial No. 5-041203, filed on March 2, 1993 in Japan, is claimed under 35 U.S.C. 119.
8. ☒ The certified copy has been filed in prior application Serial No. 08/204,536, filed March 2, 1994.
9. ☒ The prior application is assigned of record to Nippon Sheet Glass Co., Ltd.
10. ☒ The Power of Attorney in the prior application is to:

Merchant, Gould, Smith, Edell  
Welter & Schmidt, P.A.  
3100 Norwest Center  
90 South Seventh Street  
Minneapolis, MN 55402  
(612/332-5300)

11. ☒ A petition and fee has been filed to extend the term in the prior application until May 19, 1997. A copy of the petition for extension of time in the prior application is attached.
12. ☐ The inventor(s) in this application are less than those named in the prior application and it is requested that the following inventors identified above for the prior application be deleted:
13. ☐ Also Enclosed:
14. ☒ Address all future communications to the **Attention of Curtis B. Hamre** (may only be completed by attorney or agent of record) at the address below.
15. ☒ A return postcard is enclosed.


Respectfully submitted,

Tetsuya Mizusugi, et al.

By their attorneys,

MERCHANT, GOULD, SMITH, EDELL,  
WELTER, & SCHMIDT, P.A.

3100 Norwest Center  
90 South Seventh Street  
Minneapolis, Minnesota 55402  
(612) 332-5300

By 

Curtis B. Hamre  
Reg. No. 29,165

Dated: May 19, 1997



S/N 08/548,418

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Tetsuya Mizusugi, et al. Examiner: S. Griffin  
Serial No.: 08/548,418 Group Art Unit: 1303  
Filed: October 26, 1995 Docket No.: 8373.52USF1  
Title: METHOD OF BENDING SHEET GLASS

CERTIFICATE UNDER 37 CFR 1.10:

"Express Mail" mailing label number: EM609610076US

Date of Deposit: May 19, 1997

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Assistant Commissioner for Patents, Washington, D.C. 20231.

By: \_\_\_\_\_

Name: Nassir Mohamoud

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

On consideration of the Advisory Action dated March 10, 1997, please amend this application as follows:

IN THE SPECIFICATION

Page 1, line 1, in the title replace "BENDING" with --SHAPING--.

Page 1, lines 5-6, replace "bending" with --shaping--.

Page 3, line 14, replace "bending" with --shaping--.

Delete page 3, line 19 to page 4, line 11.

Page 4, line 12, delete "also".

Page 6, line 2, replace "bending" with --shaping--.



08548-418-051997

IN THE CLAIMS

Kindly rewrite claim 5 as follows:

5. (fourth amendment) A method according to claim 10, wherein said sheet of glass includes a side area on each side of a central area therebetween, and [including] wherein said shaping mold includes a pair of said second shaping surface areas and said second suction chambers with one on each side of said first shaping surface area and said first suction chamber, respectively, said second shaping surface areas being curved, said then developing a second vacuum [stop] step comprising said ring mold being maintained spaced from said curved second shaping surface areas while vacuum is developed in said second suction chambers, said side areas of the sheet of glass being attracted by the vacuum and [bent] shaped against the curved second shaping surface areas.

Claim 6, line 4, replace "bent" with --shaped--.

Kindly rewrite claim 10 as follows:

10. (twice amended) A method of [bending] shaping a sheet of glass heated nearly to a softening point thereof with a suction mold including first and second suction chambers having respective first and second shaping surface areas, comprising the steps of:

placing the sheet of glass on a ring mold;

lowering said suction mold toward said ring mold to an extent that the shaping surface areas come close to the sheet of glass on said ring mold;

developing a first vacuum in said first suction chamber at a first time to attract a first area of the sheet of glass against the first shaping surface area to shape the first area of the sheet of glass and then developing a second vacuum in said second suction chamber at a second time to attract a second area of the sheet of glass against the second shaping surface area to [complete the shaping] shape the second area of the sheet of glass complementary to the first area, said first time being before said second time so that the sheet of glass is successively brought against the first and second shaping surface areas; and

then releasing the sheet of glass from the first and second shaping surface areas of the suction mold onto a quenching ring and moving the sheet of glass on the quenching ring to quenching.

#### REMARKS

The specification has been amended to clarify the invention. Basis is found on page 4, lines 12-24. No new matter has been added.





In view of the above, it is submitted that the application is in condition for allowance. Reconsideration and reexamination are requested. Allowance of claims 5-8 and 10 at an early date is solicited.

Respectfully submitted,

Tetsuya Mizusugi, et al.

By their attorneys,

MERCHANT, GOULD, SMITH, EDELL,  
WELTER, & SCHMIDT, P.A.  
3100 Norwest Center  
90 South Seventh Street  
Minneapolis, Minnesota 55402  
(612) 332-5300

Dated: May 19, 1997

By Curtis B. Hamre  
Curtis B. Hamre  
Reg. No. 29,165